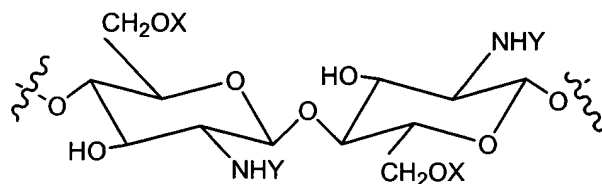


AMENDMENTS TO THE CLAIMS

1. (Currently Amended) An N-acylated chitinous polymer, wherein said chitinous polymer is comprised of subunits of the formula:



wherein

X is independently selected from hydrogen, $-(CH_2)_bCOG$, or $-(CH_2)_bCOOZ$ for each occurrence, provided that at least 10% of X groups on said polymer are $-(CH_2)_bCOOZ$ or $-(CH_2)_bCOG$;

Y is independently selected from $-C(=O)-R-CO_2Z$, ~~$-C(C=O)-R-COG$~~ , $-C(=O)-R-COG$, hydrogen, carboxyalkyl, acetyl, or a pharmaceutically acceptable salt thereof for each occurrence, provided that at least 1 % of Y groups on said polymer are $-C(=O)-R-CO_2Z$ or ~~$-C(C=O)-R-COG$~~ $-C(=O)-R-COG$;

R is independently selected from the group consisting of alkyl, alkenyl, and aryl;

b is 1-8;

G is an agent or a pharmaceutically acceptable salt thereof; and

Z is hydrogen, a cation, an agent, or a pharmaceutically acceptable salt thereof.

2. (Original) The N-acylated chitinous polymer of claim 1, wherein at least 30% of said X groups on said polymer are of the formula $-(CH_2)_bCOOZ$ or $-(CH_2)_bCOG$.
3. (Original) The N-acylated chitinous polymer of claim 1, wherein b is 1-5.
4. (Original) The N-acylated chitinous polymer of claim 3, wherein b is 1.

5. (Currently amended) The N-acylated chitinous polymer of claim 1, wherein at least 10% of said Y groups on said polymer are $-C(=O)-R-CO_2Z$ or $\text{---}C(=O)\text{---}R\text{---}COG\text{---}C(=O)\text{---}R\text{---}COG$.
6. (Currently amended) The N-acylated chitinous polymer of claim 5, wherein at least 20% of said Y groups on said polymer are $-C(=O)-R-CO_2Z$ or $\text{---}C(=O)\text{---}R\text{---}COG\text{---}C(=O)\text{---}R\text{---}COG$.
7. (Previously presented) The N-acylated chitinous polymer of claim 1, wherein R is an alkyl group having the formula $-(CH_2)_a\text{---}$, wherein a is 1-8.
8. (Original) The N-acylated chitinous polymer of claim 7, wherein a is 2, 3, or 4.
9. (Original) The N-acylated chitinous polymer of claim 1, wherein R is aryl.
10. (Previously presented) The N-acylated chitinous polymer of claim 1, wherein R further comprises one or more heteroatoms.
11. (Currently amended) The N-acylated chitinous polymer of claim 1, wherein said polymer is comprised of subunits selected from the group consisting of N,O-carboxymethyl-N-succinylchitosan, N,O-carboxymethyl-N-citraconylchitosan, N,O-carboxymethyl-N-glutarylchitosan, and mixtures thereof.
12. (Original) The N-acylated chitinous polymer of claim 1, wherein said polymer is water soluble.
13. (Original) The N-acylated chitinous polymer of claim 10, wherein said polymer is water soluble at pH's from about 1 to about 11.
14. (Original) The N-acylated chitinous polymer of claim 1, wherein Z is an agent.
15. (Original) The N-acylated chitinous polymer of claim 1 or 14, wherein said agent is a therapeutic agent.
16. (Original) The N-acylated chitinous polymer of claim 15, wherein said therapeutic agent is an anti-cancer agent.
17. (Original) The N-acylated chitinous polymer of claim 15, wherein said therapeutic agent is an agent for the treatment of a central nervous system disorder.

18. (Original) The N-acylated chitinous polymer of claim 15, wherein said therapeutic agent is an anti-inflammatory agent.

19. (Currently amended) The N-acylated chitinous polymer of claim ~~[[13]]~~ 15, wherein said therapeutic agent is selected from the group consisting of 5-aminosalicylic acid, doxorubicin, peptides, and mixtures thereof.

20 - 50. (Withdrawn)